

# Christian F. Hempelmann, Ph.D.

Curriculum Vitae

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Associate Professor of Computational Linguistics

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Editor-in-Chief, HUMOR: International Journal of Humor Research

## Full-time Professional Experience

- since August 2017  
*Associate Professor of Computational Linguistics*, Department of Literature and Languages, Texas A&M University-Commerce, Commerce, Texas:
  - Director of the Semantic Artificial Intelligence and Creativity Laboratory, [tamuc.edu/saicl](http://tamuc.edu/saicl).
  - Member of the Applied Linguistics Lab.
- August 2012 – August 2017  
*Assistant Professor of Computational Linguistics*, Department of Literature and Languages, Texas A&M University-Commerce, Commerce, Texas
- November 2009 – August 2012  
*Visiting Scholar and Assistant Research Professor*, Interdepartmental Program in Linguistics, Center for Education and Research in Information Assurance and Security, Purdue University, West Lafayette, Indiana:
  - Researcher in natural language processing for information security.
  - Part-time instructor in linguistics.
- November 2008 – August 2011  
*Director of Ontological Semantics*, RiverGlass Inc., Champaign, Illinois:
  - Leader of the research and development team for ontological semantics.
  - Supervising Ph.D.-level linguist researchers and computer-science developers.
  - Creating patented semantic natural language processing technology for law enforcement, cybersecurity, enterprise search, and ediscovery.
  - Coordinating research and development with sales and user interface design.
- August 2006 – October 2008  
*Chief Scientific Officer*, hakia Inc., New York, New York:
  - Supervision and implementation of all natural language aspects for internet search engine development and operation.
  - Creating novel applications based on computational ontological semantics.

- Recruitment, training, and supervision of international teams for various languages.
- Cooperation with marketing and sales.
- August 2005 – July 2006  
*Assistant Professor of Linguistics*, Department of Writing and Linguistics of Georgia Southern University, Statesboro, Georgia.
- July 2004 – July 2005  
*Postdoctoral Researcher*, Institute for Intelligent Systems of the University of Memphis, Memphis, Tennessee:
  - Coh-Metrix project, supervised by Danielle McNamara, Art Graesser, and Max Louwerse.
- August 2000 – August 2003  
*Graduate Research Assistant*, Center for Education and Research in Information Assurance and Security (CERIAS) at Purdue University, West Lafayette, Indiana.
- August 2000 – August 2003  
*Graduate Teaching Assistant*, English Department of Purdue University: taught introductory composition and linguistics courses.
- August 1998 – June 2000  
*Graduate Teaching and Research Assistant*, English Department of Youngstown State University, Youngstown, Ohio.
- August 1991 – August 1998  
*Editor, Translator, and IT Supervisor*, international quarterly Textileforum published by Textilwerkstatt-Verlag, European Textile Network, Hannover, Germany.

## Education

- *Ph.D. in Computational Linguistics*, August 2003  
Interdepartmental Program in Linguistics at Purdue University
  - dissertation: "[Paronomasic Puns: Target Recoverability towards Automatic Generation](#)"
  - committee: Victor Raskin (chair), Salvatore Attardo, Shaun Hughes, Mary Niepokuj, Sergei Nirenburg.
- *M.A. in English*, June 2000  
Certification in TESOL, Youngstown State University, supervised by Salvatore Attardo and Steven Brown.
- *M.A. in English Linguistics, secondary area Religious Studies*, June 1998  
[Magister Artium der Englischen Sprachwissenschaft, Zweitfach Religionswissenschaft], Leibniz-Universität Hannover, additional areas: Mathematics, German Philology, supervised by Rainer Schulze and Peter Antes
- *Abitur*, 1991  
Major in Classic Greek, German literature, and mathematics, Kaiser-Wilhelms-Gymnasium, Hannover, Germany

## Further Professional Experience

- December 2023 – January 2024  
*Resident Research Fellow*, Wilhelm Busch - The German Museum for Caricature and the Art of Drawing.
- June – August 2023  
*Lecturer*, University of California, Davis, CA.
- May 2022 – August 2022  
*Applied Scientist* at the Grand Challenge Lab of [amazon.com](#), developing a prototype computational humor system and hosting one-day off-the-grid meeting and roundtable on the state of the art of computational

humor with the international leaders in the field.

- June 2014 – May 2018  
*Ontology Consultant* for [NTENT.com](http://NTENT.com), helping redesign the core knowledge resource and QA software; Carlsbad, CA.
- January – May 2012  
*Consultant* for the project "Anonymizing Textual Data and its Impact on Utility" (NSF 09-558 Trustworthy Computing), Computer Science, Purdue University, on automatically anonymizing patient data in health records.
- May 2006 – July 2006  
*Visiting Researcher* for the project "The Lexical Field 'Humor': Wortfeld, Micro-Ontology, and Psychological Reality" at the Division for Personality and Assessment of the Department of Psychology of the University of Zurich, Switzerland.
- May 2005 – July 2006  
*Supervisor* for Ontological Semantics Acquisition Development, hakia Inc., New York, and Moscow State Lomonosov University, Moscow, Russia.
- since 1995  
*Free-lance Translator* (German-English, English-German) and editor; special areas: linguistics, psychology, movie scripts and postproduction, textile culture and history, biochemistry, automotive mechanics, military history, materials science.

## Teaching Experience

- *Computational Linguistics*  
University of California, Davis; Summer 2023, undergraduate linguistics, cognitive science, and computer science course
- *Computational Linguistics*  
Texas A&M University-Commerce; Fall 2013, Spring 2016, Spring 2017, Spring 2019, Spring 2020, Spring 2021, Spring 2022, Spring 2023, graduate linguistics and computer science course
- *Psycholinguistics*  
Texas A&M University-Commerce; Fall 2012, Spring 2014, Spring 2020, Summer 2020, Spring 2021, Spring 2022, Fall 2022, Summer 2023, graduate linguistics course
- *Language and Society*  
Texas A&M-Commerce; Spring 2015, Fall 2015, Fall 2019, Fall 2020, Spring 2021, Summer 2021, Fall 2021, Spring 2022, Fall 2022, undergraduate sociolinguistics course
- *Humor in the Humanities*  
Texas A&M University-Commerce; Fall 2021, Spring 2023, undergraduate "signature" course
- *Introduction to Linguistics*  
Texas A&M University-Commerce; Spring 2015, Summer 2021, Summer 2022, introductory undergraduate course
- *Humor in the Humanities*  
Texas A&M University-Commerce; Spring 2016, Fall 2017, Fall 2018, Fall 2019, Fall 2020, undergraduate core curriculum course
- *General Linguistics*  
Texas A&M University-Commerce; Fall 2012, Fall 2013, Fall 2014, Fall 2015, Fall 2016, Spring 2017, Fall 2020, graduate linguistics course
- *Modern Grammar*  
Texas A&M University-Commerce; Fall 2012, Spring 2014, Fall 2019, Spring 2020, undergraduate linguistics course
- *Linguistic of Humor*

- Texas A&M University-Commerce; Fall 2014, Spring 2019, advanced graduate course
- *Structure of the English Language*  
Texas A&M University-Commerce; Spring 2013, Spring 2015, Spring 2016, Spring 2018, Fall 2018, Spring 2019 graduate linguistics course (online and face-to-face)
- *Introduction to Machine Translation*  
Texas A&M University-Commerce; Spring 2018, Fall 2018, graduate course in natural language processing
- *Humor in the Classroom*  
Texas A&M University-Commerce; Fall 2018, graduate course in humor and pedagogy
- *Research Methods and Bibliography for Linguists*  
Texas A&M University-Commerce; Fall 2016, Fall 2017, Spring 2018
- *Quantitative Methods for Linguists*  
Texas A&M University-Commerce; Spring 2014, Fall 2017, graduate course in statistical methods
- *Written Argument/Research (Honors)*  
Texas A&M University-Commerce; Fall 2014, undergraduate honors composition course
- *Old English*  
Texas A&M University-Commerce; Summer 2013, graduate language course
- *Semantics*  
Texas A&M University-Commerce; Spring 2013, graduate linguistics course
- *Developing a Course in Statistics for Linguists*  
Texas A&M University-Commerce; Spring 2013, graduate individual studies linguistics course
- *Introduction to Linguistics, Ontological Semantics, Linguistic Humor Theory*  
Purdue University; Fall 2008 to Fall 2011, graduate linguistics courses, supplementary teaching for Victor Raskin
- *Computational Linguistics*  
Georgia Southern University, Spring 2006; undergraduate linguistics and computer science course
- *Semantics*  
Georgia Southern University, Spring 2006; undergraduate linguistics course
- *Composition I*  
Georgia Southern University, Fall 2005; Youngstown State University, Fall 1998, Spring 1999; Purdue University, Fall 2000
- *Introduction to Linguistics*  
Youngstown State University, Spring 1999, Fall 1999, Spring 2000, Fall 2000; undergraduate linguistics course
- *Elements of Linguistics*  
Purdue, Fall 2002; introductory undergraduate linguistics course
- *Composition II*  
Purdue University, Spring 2001; Georgia Southern University, Spring 2006

## Academic and University Service

- Editor-in-Chief
  - *HUMOR - International Journal of Humor Research* (since 2021)
- Member of the Editorial Board
  - *HUMOR - International Journal of Humor Research* (since 2011; Consulting Editor since 2005; Reviewer since 2000)
  - *The European Journal of Humour Research* (since 2013)
  - *International Journal on Advances in Intelligent Systems* (2009-2013)
- Member of the Executive Board
  - *International Society for Humor Studies* (since 2014)

- Reviewer for Journal
  - *Language*, Linguistic Society of America (since 2019)
  - *Knowledge-Based Systems*, Elsevier (since 2015)
  - *Translational Issues in Psychological Science*, American Psychological Association (since 2015)
  - *E-JournALL*, Euro-American Journal of Applied Linguistics and Languages, Texas A&M University-Commerce (since 2014)
  - *Journal of the American Medical Informatics Association*, Oxford (since 2013)
  - *SDPS Transactions: Journal of Integrated Design and Process Science*, IOS Press (since 2013)
  - *Journal of Pragmatics*, Elsevier (since 2009)
  - *Discourse Processes*, Routledge (since 2005)
  - *Perspectives: Studies in Translation Theory and Practice* (2018)
  - *SAGE Open* (2018)
  - *POST SCRIPT: Essays in Film and the Humanities*, Texas A&M University-Commerce (2015)
  - *Oral Tradition*, Journal of the International Society for the Study of Oral Tradition (2015)
  - *English Text Construction*, John Benjamins (2014)
  - *IEEE Transactions on Reliability* (2014)
  - *Education Research Journal* (2012)
  - *Journal of Data Mining, Modelling and Management* (2010)
  - *IEEE Potentials* (2009)
- Conference Committee Member and Chair
  - Member of the Steering Committee, *International Workshop on Semantic Evaluation* (SemEval) 2017
  - Program Committee Member, *International Society of Humor Studies Conference* (since 2014)
  - Awards Committee Member (Graduate Student and Lifetime Awards) for the *International Society of Humor Studies Conference* (since 2014)
  - Program Committee Member for the *(Northeastern Texas) Humor Research Conference* (HRC), Dallas, TX (since 2013)
  - Program Committee Member for the *Florida Artificial Intelligence Research Society (FLAIRS)*, General conference and special tracks (since 2005)
  - Awards Committee Chair at the *2nd International Conference on Robot Intelligence Technology and Applications* (RITA) (2013)
  - Program Committee Member for *COLING*, International Conference on Computational Linguistics (2012)
  - Program Committee Member for the *Artificial Intelligence of Humor AAAI Fall Symposium*, Washington, DC (2012)
  - Program Committee Member for the *Web Intelligence for Information Security Workshop at the WI-IAT Conference*, Lyon, France (2011)
  - Program Committee Member for the *Society for Design and Process Science*, Jeju Island, Korea (2011)
  - Program Committee Member for the *Computational Linguistics - Applications at the International Multiconference on Computer Science and Information Technology*, Poland (2009)
  - Program Committee Member for the *SEMAPRO International Conference on Advances in Semantic Processing* (2009)
- Reviewer for Events and Organizations
  - Annual Conference of the *North American Chapter of the Association for Computational Linguistics* (since 2019)
  - Annual Symposium of the American Medical Informatics Association (since 2016)
  - *American Medical Information Association (AMIA) Joint Summits on Translational Science* (since 2014)
  - *SDPS*, Society for Design and Process Science Conference (since 2013)

- *The Education University of Hong Kong*, external grant reviewer (2019)
- *National Science Foundation*, Secure and Trustworthy Cyberspace (SaTC) Program (2013)
- *CogSci Cognitive Science Society Annual Meeting* (since 2007)
- Special Session on Modeling Humor in Smart Environments, *Human-Computer Interaction (HCI) International*, Los Angeles, CA (2015)
- Katholieke Universiteit Leuven, Belgium (2006)
- U.S. Civilian Research & Development Foundation for the Independent States of the Former Soviet Union (CRDF) (2002)
- Ph.D. Dissertation Chair
  - Sarvenaz Balali, Department of Literature and Languages, Texas A&M University-Commerce, Texas (2016-2023)
  - Masoumeh Razzaghi, Department of Literature and Languages, Texas A&M University-Commerce, Texas (2018-2020)
  - Adel Aldawsari, Department of Literature and Languages, Texas A&M University-Commerce, Texas (graduated 2019)
- Ph.D. Dissertation Committee Member
  - Jennifer Monroe, Department of Interpreting and Translation, University of Bologna, Italy (since 2021)
  - Jessica Mayberry, Department of Psychology, Texas A&M University-Commerce (since 2020)
  - Heather Fitch, Department of Literature and Languages, Texas A&M University-Commerce, Texas (since 2018)
  - Marta Agüero Guerra, University of Salamanca, Spain (graduated 2022)
  - Andrés R. Riquelme, Center for Research in Mind, Brain, and Behavior, University of Granada, Spain (graduated 2021)
  - Tatiana Ringenberg, Purdue University, Indiana (graduated 2021)
  - Hilal Ergül, Department of Literature and Languages, Texas A&M University-Commerce, Texas (graduated 2019)
  - Shigehito Menjo, Department of Literature and Languages, Texas A&M University-Commerce, Texas (graduated 2018)
  - Elisa Gironzetti, Department of Literature and Languages, Texas A&M University-Commerce, Texas (graduated 2017)
  - Frank Alexander, Department of Literature and Languages, Texas A&M University-Commerce, Texas (graduated 2015)
  - Charlotte Fofo Lomotey, Department of Literature and Languages, Texas A&M University-Commerce, Texas (graduated 2015)
  - Whitney Vandiver, Interdepartmental Program in Linguistics, Purdue University, West Lafayette, Indiana (graduated 2011)
  - William Eyre, Center for Education and Research in Information Assurance and Security, Purdue University, West Lafayette, Indiana (graduated 2009)
  - Andrea Samson, Department of Psychology, University of Freiburg, Switzerland (graduated 2008)
  - Michele Sala, Università degli Studi di Bergamo, Italy (graduated 2004)
- Master's Thesis Chair
  - Divya Solomon, Department of Computer Science and Information Systems, Texas A&M University-Commerce, Texas (graduated 2017)
- Master's Thesis Committee Member
  - Thomas Joyner, Department of Languages, Literatures and Linguistics, Bangor University, UK
  - Rajesh Shanmuga Sundaram, Department of Computer Science and Information Systems, Texas A&M University-Commerce, Texas (graduated 2018)
  - Gideon Mazambani, Department of Computer Science and Information Systems, Texas A&M

- University-Commerce, Texas (graduated 2015)
- Simon Slobodnik, Center for Education and Research in Information Assurance and Security, Purdue University, West Lafayette, Indiana (graduated 2012)
- Jie Zhang, Interdepartmental Program in Linguistics, Purdue University, West Lafayette, Indiana (graduated 2009)
- Maryana Bendus, Interdepartmental Program in Linguistics, Purdue University, West Lafayette, Indiana (graduated 2009)
- Committee Chair
  - Graduate Certificate in Computational Linguistics Committee, Dept. of Literature and Languages, Dept. of Computer Science and Information Technology, Texas A&M University-Commerce (since 2012)
  - Curriculum Committee, Dept. of Literature and Languages, Texas A&M University-Commerce (2014-2016)
  - Founding President of the Purdue Linguistics Association (PLA) (2000-2002)
- Committee Memberships
  - Texas A&M Universityâ€“Commerce Faculty Senator (since 2020)
  - College of Humanities, Social Sciences, and Arts (CHSSA) Faculty Advisory Committee Member (since 2021)
  - untenured faculty mentor
    - Literature and Languages (since 2021)
    - History (since 2019)
  - Applied Linguistics Assessment Committee (since 2017)
  - TESOL degree committee, Dept. of Literature and Languages, Texas A&M-Commerce (since 2012)
  - Linguistics Committee, Dept. of Literature and Languages, Texas A&M University-Commerce (since 2012)
  - Job Search Committee for the position of Writing Center Director and Assistant Professor of English (2021)
  - PhD Admissions Committee, Texas A&M University-Commerce (2014-2020)
  - Job Search Committee for the position of Assistant Professor of Spanish (2020)
  - Instructional Peer Evaluation Committee (2017-2018)
  - Job Search Committee for the position of Professor and Department Head of Theatre, Texas A&M University-Commerce (2018)
  - Job Search Committee for the position of Assistant Professor of Journalism, Texas A&M University-Commerce (2017)
  - Job Search Committee for the position of Assistant Professor of Linguistics, Texas A&M University-Commerce (2015)
  - Curriculum Committee, Dept. of Literature and Languages, Texas A&M University-Commerce (2013-2014)
  - Job Search Committee for the position of Director of the English Language Institute (ELI), Texas A&M University-Commerce (2015)
  - Graduate Certificate in Digital Humanities committee, Dept. of Literature and Languages, Texas A&M University-Commerce (since 2013)
  - Academic Technology Advisory Committee (ATAC), representative of the College of Humanities, Social Sciences & Arts, Texas A&M University-Commerce (2013-2014)
  - Scholarship Committee, Dept. of Literature and Languages, Texas A&M University-Commerce (2012-2014)
  - Job Search Committee for the position of Director of the English Language Institute, Texas A&M University-Commerce (2013)
  - Technology, Teaching & Writing Committee, Dept. of Writing and Linguistics, Georgia Southern



(2005/2006)

- Georgia Southern Linguistics Circle Sponsor (2005/2006)
- Computers and Composition Committee, Purdue, Macintosh Tutorials and Resource Collections (2000-2003)
- Secretary of the Purdue Linguistics Association (PLA) (2002/2003)
- Graduate Student Delegate to the English Department, YSU (1999/2000)
- Organizer of Events
  - Faculty Sponsor of the [13th Humor Research Conference](#) (HRC), Commerce, TX, March 31-April 1, 2023.
  - Member of the conference board and co-convener with Luca Bischetti, Tristan Miller, Julia M. Rayz, and Manfred Stede of a panel on "Humor and Artificial Intelligence" at the *2022 ISHS Conference*, Bertinoro, Italy, June 29-July 2, 2022.
  - Faculty Sponsor of the *12th Humor Research Conference* (HRC), Commerce, TX, April 1-2, 2022.
  - Webinar "Humor and Artificial Intelligence" in the *2021 Online Webinar series of the International Society for Humor Studies*. with 4 presentations. May 21, 2021.
  - Faculty Sponsor of the *11th Humor Research Conference* (HRC), Commerce, TX, February 26-27, 2021.
  - Faculty Sponsor of the *10th Humor Research Conference* (HRC), Commerce, TX, March 20, 2020.
  - Co-convener with Salvatore Attardo, Elisa Gironzetti, and Dale Koike of the [2019 International Society for Humor Studies Conference](#) at the University of Texas at Austin, June 24-29, 2019.
  - Co-convener with Julia Taylor Rayz, Tristan Miller, Max Petrenko, and Tony Veale of a panel on "Humor and Artificial Intelligence" at the *2019 ISHS Conference*, Austin, Texas, June 25-29, 2019.
  - Faculty Sponsor of the *9th Humor Research Conference* (HRC), Commerce, TX, March 29, 2019.
  - Co-convener with Julia Taylor Rayz, Tristan Miller, Max Petrenko, and Tony Veale of a panel on ["Humor and Artificial Intelligence"](#) at the *2018 ISHS Conference*, Tallinn, Estonia, June 25-29, 2018.
  - Faculty Sponsor of the *8th Humor Research Conference* (HRC), Commerce, TX, February 16-17, 2018.
  - Co-organizer with Elisa Gironzetti of the *7th Humor Research Conference* (HRC), Dallas, TX, March 9-11, 2017.
  - Organizer of two talks by [Bill DeSmedt](#): "The Metalang Conversational Agent" and "Reading from *Singularity and Duality*". Department of Literature and Languages, Texas A&M University-Commerce, February 6-8, 2017.
  - Co-organizer with Tristan Miller and Iryna Gurevych. ["Computational Detection and Interpretation of Puns."](#) at the *International Workshop on Semantic Evaluation (SemEval) 2017* held at the *55th Annual Meeting of the Association for Computational Linguistics (ACL)*. Vancouver, CA. August 2017.
  - Organizer of the Ontology Summit with Max Petrenko and Gavin Matthews (NTENT.com) at Texas A&M University-Commerce, 7 November 2016.
  - Co-organizer with Owen Lynch (Southern Methodist University) of the *6th Humor Research Conference* (HRC), Commerce, TX, February 19-20, 2016.
  - Co-organizer with Max Petrenko and Gavin Matthews (NTENT.com) of the *Special Track on Knowledge-Based Artificial Intelligence* at the *AAAI 2016 FLAIRS Conference* in Key Largo, Florida, May 16-18, 2016.
  - Co-organizer with Owen Lynch (Southern Methodist University) of the *5th Humor Research Conference* (HRC), Universities Center, Dallas, TX, February 20-22, 2015. [www.tamuc.edu/humor](http://www.tamuc.edu/humor)
  - Co-organizer with Owen Lynch (Southern Methodist University) of the *4th Humor Research Conference* (HRC), Rockwall, TX, February 21-23, 2014.
  - Organizer of a Training Workshop in the Facial Action Coding System conducted by Ursula Beermann (UC Berkeley), College of Humanities, Social Sciences, and Arts, Texas A&M University-



Commerce, June-October 2013.

- Co-organizer with Owen Lynch (Southern Methodist University) of the *3rd Northeastern Texas Humor Research Conference* (NETHRC), Dallas, TX, February 22-24, 2013. Keynote speaker: Dr. Shaquille O'Neal.  
<http://www.tamuc.edu/academics/colleges/humanitiesSocialSciencesArts/nethrc/3rdnethrc/default.aspx>
- Co-organizer with Philip M. McCarthy of the special track "Applied Natural Language Processing" and General Program Committee Member at the *20th International FLAIRS (Florida Artificial Intelligence Research Society) Conference*. Key West, Florida (2007)
- Co-organizer with Andrea C. Samson of two symposia on Cartoon Humor Research at the Youngstown and Copenhagen conferences of the International Society for Humor Studies (2005/2006)
- Faculty Sponsor  
German Stammtisch at TAMUC, <https://www.facebook.com/stammtisch.tamuc.edu> (2012-2018)

## Publications

- Book
  - Hempelmann, Christian F. 2010. *Incongruity and Resolution of Humorous Narratives: Linguistic Humor Theory and the Medieval Bawdry of Rabelais, Boccaccio, and Chaucer*. Saarbrücken: VDM Verlag.
- Articles
  - Peer-Reviewed Journal Papers
    - Henley, Tracy B. & Christian F. Hempelmann. accepted for publication. "Göbekli Tepe and the Neolithic Origins of Writing." *New Ideas in Psychology*.
    - Gironzetti, Elisa, Christian F. Hempelmann, Adel Aldawsari, Sarvenaz Balali, Władysław Chłopicki, Hilal Ergül, Meichan Huang, Liisi Laineste, Shigehito Menjo, and Ksenia Shilikhina. 2023. "Semantic Components of Laughter Behavior: A Lexical Field Study of 14 Translations of *One Flew Over the Cuckoo's Nest*." *HUMOR – International Journal of Humor Research*. 34-1. doi: [10.1515/humor-2022-0114](https://doi.org/10.1515/humor-2022-0114).
    - Olah, Andrew R. and Christian F. Hempelmann. "Humor in the age of coronavirus: a recapitulation and a call to action." *HUMOR – International Journal of Humor Research*. 34-2: 329-338. doi: [10.1515/humor-2021-0032](https://doi.org/10.1515/humor-2021-0032)
    - Hempelmann, Christian F. 2019. "The Predictable Semiotic Essence of Humor." *HUMOR – International Journal of Humor Research*. 32-4: 531-536. doi: [10.1515/humor-2019-0060](https://doi.org/10.1515/humor-2019-0060).
    - Hempelmann, Christian F. 2017. "True German and phony English laughter: Schmidt-Hidding was still Schmidt." *European Journal of Humour Research* 5-4: 179-193. doi: [10.7592/EJHR2017.5.4.hempelmann](https://doi.org/10.7592/EJHR2017.5.4.hempelmann).
    - Hempelmann, Christian F. 2016. "Humor in the Teaching of Writing: A Microethnographic Approach to Developing Critical Thinking." *eJournAll: EuroAmerican Journal of Applied Linguistics and Languages* 3-2: 42-55. doi: [10.21283/2376905X.5.72](https://doi.org/10.21283/2376905X.5.72).
    - Hempelmann, Christian F., Unal Sakoglu, Varadraj P. Gurupur & Seetarama Jampana. 2015. "An Entropy-Based Evaluation Method for Knowledge Bases of Medical Information Systems." *Expert Systems with Applications* 46: 262-273. doi: [10.1016/j.eswa.2015.10.023](https://doi.org/10.1016/j.eswa.2015.10.023).
    - Mazambani, Gideon, Maria A. Carlson, Stephen Reysen & Christian F. Hempelmann. 2015. "Impact of Status and Meme Content on Spread of Memes in Virtual Communities." *Human Technology Journal* 11-2: 148-164. doi: [10.17011/ht/urn.201511113638](https://doi.org/10.17011/ht/urn.201511113638).
    - Hempelmann, Christian F. & Elisa Gironzetti. 2015. "An Interlingual Study of the Lexico-Semantic Field LAUGH in Ken Kesey's *One Flew over the Cuckoo's Nest*." *Journal of Literary Semantics* 44-2: 141-167. doi: [10.1515/jls-2015-0008](https://doi.org/10.1515/jls-2015-0008).

- Arslan, Abdullah, Christian F. Hempelmann, Salvatore Attardo, Grady P. Blount & Nikolay Metodiev Sirakov. 2015. "Threat assessment using visual hierarchy and conceptual firearms ontology," *Optical Engineering* 54-5: 053109. doi: [10.1117/1.OE.54.5.053109](https://doi.org/10.1117/1.OE.54.5.053109).
- Sirakov, Nikolay Metodiev, Abdullah N. Arslan, Christian F. Hempelmann, Salvatore Attardo & Grady P. Blount. 2015. "Firearms identification through partonomy." *SPIE Newsroom*. August 11, 2015. doi: [10.1117/2.1201507.005849](https://doi.org/10.1117/2.1201507.005849).
- Hempelmann, Christian F. 2014. "Humor and AI: Not Logical." *De Connectie*: 11-1: 10-13.
- Raskin, Victor, Julia M. Taylor & Christian F. Hempelmann. 2013. "Meaning- and Ontology-Based Technologies for High-Precision Language and Information-Processing Computational Systems." *Advanced Engineering Informatics*. 27: 4-12.
- Petrenko, Max & Christian F. Hempelmann. 2013. "Robotic Reasoning with Ontological Semantic Technology." *Advances in Intelligent Systems and Computing* 208: 883-892.
- Hempelmann, Christian F. & Salvatore Attardo. 2011. "Resolutions and Their Incongruities: Further Thoughts on Logical Mechanisms." *HUMOR – International Journal of Humor Research*. 24-2: 125-149.
- Samson, Andrea C. & Christian F. Hempelmann. 2011. "Humor with Background Incongruity: Does More Required Suspension of Disbelief Affect Humor Perception?" *HUMOR – International Journal of Humor Research*. 24-2: 167-186.
- Bell, Nancy, Scott C. Crossley & Christian F. Hempelmann. 2011. "Word Play in Church Marquees." *HUMOR – International Journal of Humor Research*. 24-2: 187-202.
- Raskin, Victor, Christian F. Hempelmann & Julia M. Taylor. 2010. "How to Understand and Assess a Theory: The Evolution of the SSTH into the GTVH and Now into the OTH." *Journal of Literary Theory*. 3-2: 285-312.
- Samson, Andrea C., Christian F. Hempelmann, Oswald Huber & Stefan Zysset. 2009. "Neural substrates of Incongruity-Resolution and Nonsense Humor." *Neuropsychologia* 47: 1023-1033.
- Proyer, René, Christian F. Hempelmann & Willibald Ruch. 2009. "They're All Gonna Laugh at You! Or are They? Are Gelotophobes Actually Laughed at?" *HUMOR – International Journal of Humor Research*. 22-2: 213-232.
- Hempelmann, Christian F. 2007. "The Epic Tanganyika Laughter Epidemic Revisited." *HUMOR – International Journal of Humor Research*. 20-1: 49-71.
- Hempelmann, Christian F., Vasile Rus, Arthur C. Graesser & Danielle S. McNamara. 2006. "Evaluating State-of-the-Art Treebank-style Parsers for Coh-Metrix and Other Learning Technology Environments." *Natural Language Engineering*. 12-2: 131-144.
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## Presentations

- Conference Presentations

- ISHS 2023
- Kassel 2023
- Hempelmann, Christian F. "Scalar Script Opposition? Shit!" Paper presentation at the *2022 Conference of the International Society for Humor Studies* in Bertinoro, Italy. 29 June – 2 July 2022.
- McShane, Brian, Shannon Carter, Rachel Huddleston, Ashanka Kumari, and Christian F. Hempelmann. "Organizing in the American Southwest." Online roundtable at the *2022 Conference On Community Writing – Weaving Narratives for Social Justice Action in the Local, National, Global* – Washington, DC. October 21-23, 2022.
- Hempelmann, Christian F. and Max Petrenko. "Who Told the Joke the Computer Made?" Paper presentation at the *11th Humor Research Conference*, Texas A&M University-Commerce, Texas, February 26-27, 2021.
- Hempelmann, Christian F. "What Common-Sense Knowledge Does a Computer Need to Get Humor?" Keynote presentation at the Symposium *Integrating Symbolic Representation with Numeric Representation for Commonsense Reasoning* at Tsinghua University, Beijing, China. October 22-25, 2019.
- Aldawsari, Adel A. and Christian F. Hempelmann. "The Humor-Related Role of English Code-Switching in Arabic Scripted Monologic Acts." Paper presentation at the *2019 Conference of the International Society for Humor Studies* at the University of Texas at Austin, TX. June 24-28, 2019.
- Hempelmann, Christian F. and Robin Anne Reid. "The Grammar of Historical Memory in Tolkien's Legendarium: The Tale of Beren and Lúthien." Paper presentation at the *Leeds International Medieval Congress*, Leeds, UK. July 2-5, 2018.
- Petrenko, Max, Court Falk, and Christian F. Hempelmann. "Automatic ProtoJoke Generator." Paper presentation at the *2018 Conference of the International Society for Humor Studies* at Tallinn University, Tallinn, Estonia. June 25-29, 2018.
- Sundaram, Rajesh, Christian F. Hempelmann, and Derek Harter. "Generation of Humorous Captions for Cartoons." Paper presentation at the *2018 Conference of the International Society for Humor Studies* at Tallinn University, Tallinn, Estonia. June 25-29, 2018.
- Hempelmann, Christian F. "What's the opposite of shit?" Paper presentation at the *8th Humor Research Conference*, Texas A&M University-Commerce, Texas, February 16-17, 2018.
- Miller, Tristan, Christian F. Hempelmann, and Iryna Guryevich. "Computational Detection and Interpretation of Puns." Paper presentation at the *55th Annual Meeting of the Association for Computational Linguistics*. Vancouver, Canada. July 30-August 4, 2017.
- Miller, Tristan and Christian F. Hempelmann. "Computational Detection and Interpretation of Puns: Report on a Shared Task at SemEval-2017." Paper presentation at the *2017 Conference of the International Society for Humor Studies* at the University of Quebec at Montreal, Canada. July 10-14, 2017.
- Hempelmann, Christian F., Divya Solomon, Abdullah N. Arslan, Salvatore Attardo, Grady P. Blount, Tracy Adkins, and Nikolay M. Sirakov. "Detecting necessary and sufficient parts for assembling a functional weapon." Paper presentation at *SPIE Defense + Security* in Anaheim, California. April 9-13, 2017.
- Hempelmann, Christian F., Bill DeSmedt, Max Petrenko, & Gavin Matthews. "A Conversational Agent Learns to Detect Funny Content." Paper presentation at the *7th Humor Research Conference in Northeast Texas*, Dallas, TX. March 9-11, 2017.
- Hempelmann, Christian F., Max Petrenko, and Gavin Matthews. "Automatic Discovery of Degrees of Fuzzy Set Membership in Ontologies." Paper presentation at the *2016 North American Fuzzy Information Processing Society (NAFIPS) Conference*. El Paso, TX. Oct. 31 - Nov. 4, 2016.
- Hempelmann, Christian F., Max Petrenko, and Gavin Matthews. "Interpretation of Ontological

- Rigidity and Temporality." *International Conference on Artificial Intelligence* at Worldcomp 2016. Las Vegas, NV. July 25-28, 2016.
- Hempelmann, Christian F. "The Final Laugh." Paper presentation at the *2016 Conference of the International Society for Humor Studies*, Dublin, Ireland. June 27-July 1, 2016.
  - Hempelmann, Christian F. "Visualizing the Semantics of LAUGH." *THATCamp 2016*. Oklahoma State University, Stillwater, OK. May 20-21, 2016.
  - Beermann, Ursula, Laura R. Saslow, Sarina R. Saturn, Christian F. Hempelmann, Paul K. Piff, and Dacher Keltner. "Wahrgenommene Prosozialität im Klang von Lachen und ihre Auswirkung auf das Verhalten [Perceived Prosociality in the Sound of Laughter and its Effect on Behavior]." *12th Conference of the Austrian Psychological Association*. Innsbruck, Austria. March 31-April 2, 2016.
  - Hempelmann, Christian F. "Quantifying the Semantics of Humor." Paper presentation at the *6th Humor Research Conference in Northeast Texas*, Dallas, TX. February 19-20, 2016.
  - Hempelmann, Christian F. "The Tolkien Corpus Project First Results." Contribution to the Digital Humanities Area Roundtable "Teaching Corpus Stylistics with the Tolkien Corpus" organized by Robin Anne Reid at the *37th Annual Southwest Popular/American Culture Association (SWPACA) Conference*, Albuquerque, NM. February 10-13, 2016.
  - Hempelmann, Christian F. and Elisa Gironzetti. "The LAUGH Field Across Language Families." Poster presentation at the *Dallas-Fort Worth Metroplex Linguistics Conference*. University of North Texas, Denton, TX. November 14, 2015.
  - Hempelmann, Christian F., and Max Petrenko. "An AI for Humorously Reframing Interaction Narratives with Human User." Paper presentation in the Special Session on Modeling Humor in Smart Environments. *Human-Computer Interaction (HCI) International 2015*. Los Angeles, CA. August 2015.
  - Hempelmann, Christian F. and Alex Dodge. "Automatic Set-Up Detection for Daily News Parodies." Paper presentation at the *2015 Conference of the International Society for Humor Studies*, Oakland, CA. June 29-July 3, 2015.
  - Arslan, Abdullah N., Christian F. Hempelmann, Salvatore Attardo, Grady P. Blount, Nona N. Sirakova, Nikolay M. Sirakov. 2015. "Identification of partially occluded firearms through partonomy." *SPIE Defense, Security, and Sensing 2015 Conference*. Baltimore, MD, April 20-24, 2015.
  - Hempelmann, Christian F., Varadraj Gurupur, and Unal Sakoglu. "Patient-Centered Ontology Development for Personal Health Information Systems." Poster presentation at the *2015 Summit on Clinical Research Informatics* of the American Medical Information Association (AMIA), San Francisco, CA. March 26, 2015.
  - Hempelmann, Christian F. "Teaching Writing with Humor Fieldwork." Paper presentation at the *5th Humor Research Conference in Northeast Texas*, Dallas, TX. February 20-21, 2015.
  - Hempelmann, Christian F. "Tools for Quantifying Masculinity in *The Hobbit*". Paper presentation at the *36th Annual Southwest Popular/American Culture Association (SWPACA) Conference*, Albuquerque, NM. February 11-14, 2015.
  - Menjo, Shigehito and Christian F. Hempelmann. "Beyond wara-: Laughter in Japanese." Poster presentation at the *Dallas-Fort Worth Metroplex Linguistics Conference*. Texas A&M University-Commerce, Rockwall, TX. November 1, 2014.
  - Hempelmann, Christian F. "LAUGH: An Interlingual Lexical Field Study." Paper presentation at the *2014 Conference of the International Society for Humor Studies*, Utrecht, NL. July 7-11, 2014.
  - Menjo, Shigehito and Christian F. Hempelmann. "How do we know smiling and laughing gestures from Japanese words? Lexical/Semantic field analysis of smile and laughter in translation." Poster presentation at the *SCMLA 71st Annual Conference*, Radisson Hotel and Suites, Austin, TX. October 18-22, 2014.
  - Hempelmann, Christian F., Abdullah N. Arslan, Salvatore Attardo, Grady P. Blount, and Nikolay M.

- Sirakov. "Assessing the threat of firearms: new threat formula, resources, and ontological linking algorithms." *SPIE Defense, Security, and Sensing 2014 Conference*. Baltimore, MD, May 5-9, 2014.
- Hempelmann, Christian F. and Varadraj Gurupur. "A Person-centered Health Information Delivery Tool for Dementia Caregivers on an Ontological Semantic Basis." Poster presentation at the *2014 Summit on Clinical Research Informatics* of the American Medical Information Association (AMIA), San Francisco, CA. April 10, 2014.
  - Ergül, Hilal and Christian F. Hempelmann. "Gender-based Variation in Verbal Reactions to Unfunny Jokes." Paper presentation at the *2014 Conference of the American Association for Applied Linguistics (AAAL)*, Portland, OR. March 22-25, 2014.
  - Hempelmann, Christian F. "The Pseudo-Logical Mechanism of Humor in the Narrativity of Jokes." Paper presentation at the Seminar "How Humor Capitalizes on Narrative" at the *2014 Conference of the American Comparative Literature Association*, New York, NY. March 20-23, 2014.
  - Ergül, Hilal and Christian F. Hempelmann. "Metalepsis and Narrative Transgression in Humor Creation: An Analysis of Cartoons." Paper presentation at the Seminar "How Humor Capitalizes on Narrative" at the *2014 Conference of the American Comparative Literature Association*, New York, NY. March 20-23, 2014.
  - Gironzetti, Elisa and Christian F. Hempelmann. "Laughing in English, French, Italian, and Spanish." Paper presentation at the 4th Humor Research Conference in Northeast Texas, Rockwall, TX. February 21-23, 2014.
  - Fattor, Marina and Christian F. Hempelmann. "Nonsense and Absurd Humor" Poster presentation at the 4th Humor Research Conference in Northeast Texas, Rockwall, TX. February 21-23, 2014.
  - Hempelmann, Christian F. "Building a Personal Health Information System for Dementia Based on an Ontological Foundation." Paper presentation at the *Dallas-Fort Worth Metroplex Linguistics Conference*. Graduate Institute of Applied Linguistics, Dallas, TX. October 26, 2013.
  - Menjo, Shigehito and Christian F. Hempelmann. "How do Japanese not differentiate smiling and laughing?" Poster presentation at the *Dallas-Fort Worth Metroplex Linguistics Conference*. Graduate Institute of Applied Linguistics, Dallas, TX. October 26, 2013.
  - Gironzetti, Elisa and Christian F. Hempelmann. "A Method to Approach the Lexical Field of Smiling and Laughing." Poster presentation at the *Dallas-Fort Worth Metroplex Linguistics Conference*. Graduate Institute of Applied Linguistics, Dallas, TX. October 26, 2013.
  - Hempelmann, Christian F. and Max Petrenko. "Knowledge Representation and Adaptation in Ontological Semantic Technology." Paper presentation at the *7th IEEE International Conference on Semantic Computing*, Irvine, CA, September 2013.
  - Beermann, Ursula, Laura R. Saslow, Sarina R. Saturn, Christian F. Hempelmann, and Dacher Keltner. "Perceptions of prosociality in the sound of a laugh." Paper presentation at the *2013 Conference of the International Society for Research on Emotion (ISRE)*, University of California, Berkeley, CA, August 2013.
  - Hempelmann, Christian F. "Laughing and Smiling: An Interlingual Lexical Field Study." Paper presentation at the *2013 Conference of the International Society for Humor Studies*. College of William and Mary, Williamsburg, VA, July 2013.
  - Clegg, Geoffrey and Christian F. Hempelmann. "Directed and Undirected Resolution in Absurd and Nonsensical Humor." Paper presentation at the *3rd North East Texas Humor Research Conference*, Southern Methodist University, Dallas, TX, February 2013.
  - Hempelmann, Christian F. "Can Ontology be Global?" Paper presentation at *Globalization and the Humanities: Texas and the World*. Texas A&M-Commerce, November 2012.
  - Hempelmann, Christian F. "Semantic Design Principles for Natural Language Ontologies." Paper presentation at the *2012 DFW Metroplex Linguistics Conference*. University of Texas at Arlington, November 2012.
  - Hempelmann, Christian F. "Formal Humor Logic Beyond Second-Most Plausible Reasoning." Paper

presentation at the *2012 AAAI Fall Symposium on the Artificial Intelligence of Humor*. Arlington, VA, November 2012.

- Menjo, Shigehito, Christian F. Hempelmann, and Salvatore Attardo. "Bridging the Uncanny Valley: A Method to Develop Smiles in Embodied Agents." Poster presentation at the *2012 AAAI Fall Symposium on the Artificial Intelligence of Humor*. Arlington, VA, November 2012.
- Hempelmann, Christian F., Julia M. Taylor, and Victor Raskin. 2012. "Tightening Up Joke Structure: Not by Length Alone." *CogSci: 34th Annual Meeting of the Cognitive Science Society*. Sapporo, Japan. August 1-4, 2012.
- Taylor, Julia M., Victor Raskin, and Christian F. Hempelmann. 2012. "Ontological Properties of Animals in a Children's Dictionary With and Without Common-Sense Knowledge." *CogSci: 34th Annual Meeting of the Cognitive Science Society*. Sapporo, Japan. August 1-4, 2012.
- Hempelmann, Christian F. "The Falsity of Fun." Paper presentation at the *2012 Conference of the International Society for Humor Studies*. Jagiellonian University, Krakow, Poland, July 2012.
- Hempelmann, Christian F. "Computational humor panel: OSH reformulations of GTVH phenomena." Panel presentation at the *2nd North East Texas Humor Research Conference 2011*. Commerce, Texas. September 2011.
- Taylor, Julia M., Victor Raskin, and Christian F. Hempelmann. "From Disambiguation Failures to Common-Sense Knowledge Acquisition: A Day in the Life of an Ontological Semantic System." *Intelligent Agent Technology Conference. Web Intelligence and Intelligent Agent Technology Conference*. Lyon, France, August 2011.
- Hempelmann, Christian F. and Vikas Mehra. "Baseline Semantic Spam Filtering." *Web Intelligence for Information Security Workshop. Web Intelligence and Intelligent Agent Technology Conference*. Lyon, France, August 2011.
- Taylor, Julia M., Christian F. Hempelmann, and Victor Raskin. 2011. "Post-Logical Verification of Ontology and Lexicons: The Ontological Semantic Technology Approach." *International Conference on Artificial Intelligence*. Las Vegas, NE. July 2011.
- Hempelmann, Christian F. "Common Sense: What Machines Should Learn Next for Humor." *2011 Conference of the International Society for Humor Studies*. Boston University, Boston, MA, July 2011.
- Taylor, Julia M., Victor Raskin, Christian F. Hempelmann. 2011. "Towards Computational Guessing of Unknown Word Meanings: The Ontological Semantic Approach." *Cognitive Science Conference*. Boston, MA. July 2011.
- Hempelmann, Christian F. 2011. "Spam Filtering with Meaning Density." *Intelligence is Fuzzy: Ontology-based Agents, Workshop (also workshop co-chair), Society for Design and Process Science Conference*. Jeju Island, Korea, June 2011.
- Hempelmann, Christian F. 2011. "Logical Mechanisms." Panel presentation at the *1st North East Texas Humor Research Conference 2011*. Dallas, Texas. January 30, 2011.
- Taylor, Julia M., Victor Raskin, Christian F. Hempelmann, and Salvatore Attardo. 2010. "An Unintentional Inference and Ontological Property Defaults." *2010 IEEE International Conference on Systems, Man, and Cybernetics*. Istanbul, Turkey, October 2010.
- Raskin, Victor, Julia M. Taylor, and Christian F. Hempelmann. "Ontological Semantic Technology for Detecting Insider Threat and Social Engineering." *New Security Paradigms Workshop 2010*. Boston, MA, September 21-23.
- Hempelmann, Christian F., Julia M. Taylor, and Victor Raskin. 2010. "Application-guided Ontological Engineering." *International Conference on Artificial Intelligence*. Las Vegas, NE, July 2010.
- Taylor, Julia M., Victor Raskin, Christian F. Hempelmann, and Whitney R. Vandiver. 2010. "Computing the Meaning of Number Expressions in English: The Common Case." *Intelligent Linguistic Technologies Workshop, International Conference on Artificial Intelligence*. Las Vegas,

NE, July 2010.

- Taylor, Julia M., Christian F. Hempelmann, and Victor Raskin. 2010. "On an Automatic Acquisition Toolbox for Ontologies and Lexicons in Ontological Semantics." *International Conference on Artificial Intelligence*. Las Vegas, NE, July 2010.
- Raskin, Victor, Christian F. Hempelmann, and Julia M. Taylor. 2010. "Guessing vs. Knowing: The Two Approaches to Semantics in Natural Language Processing." *Annual International Conference Dialogue 2010*. Moscow, Russia, May 2010.
- Raskin, Victor, Christian F. Hempelmann, and Julia Taylor. 2009. "From SSTH to GTVH to OSTH—and never ever back!" Panel presentation at the *2009 Conference of the International Society for Humor Studies*. California State University, Long Beach, California. June 17-20.
- Raskin, Victor, Katrina E. Triezenberg, Christian F. Hempelmann, Brian Buck, and Arthur Keen. 2008. "Accessing and Manipulating Meaning of Textual and Data Information for Information Assurance and Security and Intelligence Information." Paper presentation at the *Cyber Security and Information Intelligence Research Workshop*. Oak Ridge National Laboratory, Oak Ridge, Tennessee. May 12-14, 2008.
- Hempelmann, Christian F. 2007. "Laughter in One Flew Over the Cuckoo's Nest and Einer flog über das Kuckucksnest." Poster presentation at the *10th Congress of the Swiss Society for Psychology*. University of Zurich, Switzerland. September 13-14, 2007.
- Raskin, Victor and Christian F. Hempelmann. 2007. "Functional and 'Dysfunctional' Nouns in Ontological Semantics." *Concept Types and Frames in Language, Cognition, and Science*. Universität Düsseldorf, Germany. August 20-22, 2007.
- Hempelmann, Christian F. and Ursula Beermann. 2007. "What Freshmen Laugh About. Frequent Themes in College Humor." *2007 Conference of the International Society for Humor Studies*. Salve Regina University, Newport, RI. June 28 - July 1, 2007.
- Hempelmann, Christian F. and Andrea Samson. 2007. "Visual Puns and Verbal Puns. Descriptive Analogy or False Analogy?" *2007 Conference of the International Society for Humor Studies*. Salve Regina University, Newport, RI. June 28 - July 1, 2007.
- Hempelmann, Christian F. 2007. "Ontological-Semantic Internet Search." Semantic Content Acquisition and Representation (SCAR) 2007. Workshop at NODALIDA 2007. Tallinn, Estonia. May 24, 2007.
- Triezenberg, Katrina E., Christian F. Hempelmann, Chris Gates, Victor Raskin, and Riza C. Berkan. 2007. "Multiword Expressions in Ontological-Semantic Lexicons." *4th Midwest Computational Linguistics Colloquium 2007*. Purdue University, West Lafayette, Indiana. April 28, 2007.
- Hempelmann, Christian F. and Scott Crossley. 2006. "Wordplay in Church Marriages." With Scott C. Crossley. Paper at the *2006 Conference of the International Society for Humor Studies*. Denmark's Pedagogical University, Copenhagen, Denmark. July 3-7, 2006.
- Hempelmann, Christian F. and Willibald Ruch. 2006. "The Lexical Field of Laughing in One Flew over the Cuckoo's Nest." Round table contribution at the *2006 Conference of the International Society for Humor Studies*. Denmark's Pedagogical University, Copenhagen, Denmark. July 3-7, 2006.
- Hempelmann, Christian F. and Andrea Samson. "Introduction to Cartoon Research." Paper at the *2006 Conference of the International Society for Humor Studies*. Denmark's Pedagogical University, Copenhagen, Denmark. July 3-7, 2006.
- Raskin, Victor and Christian F. Hempelmann. 2006. "The Whys and Hows of Ontological Semantics." Paper at the *DIALOG 2006 Conference*. Moscow, Russian Federation. May 31 – June 4, 2006.
- Hempelmann, Christian F., Victor Raskin, and Katrina E. Triezenberg. "Computer, Tell Me a Joke ... but Please Make it Funny: Computational Humor with Ontological Semantics." Paper at the *19th International FLAIRS (Florida Artificial Intelligence Research Society) Conference*. Melbourne

Beach, Florida. May 11-13, 2006.

- Hempelmann, Christian F., David Dufty, Philip M. McCarthy, Arthur C. Graesser, Zhiqiang Cai, and Danielle S. McNamara. "Using LSA to Automatically Identify Givenness and Newness of Noun Phrases in Written Discourse." Poster at the *XXVII Annual Meeting of the Cognitive Science Society*. Stresa, Italy. July 21-23, 2005.
- Dufty, David F., Christian F. Hempelmann, Arthur C. Graesser, Zhiqiang Cai, and Danielle S. McNamara. "An Algorithm for Detecting Causal and Intentional Information in Text." Poster at the *15th Annual Meeting of the Society for Text and Discourse*. Amsterdam, The Netherlands. July 6 – 9, 2005.
- Hempelmann, Christian F., Vasile Rus, Arthur C. Graesser, and Danielle S. McNamara. "Evaluating State-of-the-Art Treebank-style Parsers for Coh-Metrix and Other Learning Technology Environments." Paper at the *Second Workshop on Building Educational Applications Using Natural Language Processing and Computational Linguistics at the ACL conference 2005*. Ann Arbor, MI. June 25-30, 2005.
- Hempelmann, Christian F. and Andrea Samson. "Cartoons: Formal and Cognitive Differences to Verbal Humor." Paper at the *2005 Conference of the International Society for Humor Studies*. Youngstown State University, Youngstown, OH, June 13-18, 2005.
- Rus, Vasile and Christian F. Hempelmann. "Across-Genres and Empirical Evaluation of State-of-the-Art Treebank-style Parsers." Paper at the *2nd Language and Technology Conference: Human Language Technologies as a Challenge for Computer Science and Linguistics*. Poznan, Poland. April 21 – 23, 2005.
- Raskin, Victor, Christian F. Hempelmann, and Katrina E. Triezenberg. "Semantic Forensics: An Application of Ontological Semantics to Information Assurance." Paper at the *ACL 2004 Workshop on Text Meaning and Interpretation*. Barcelona, Spain. July 26, 2004.
- Hempelmann, Christian F. "An Ynperfect Pun Selector for Computational Humor." Paper at the *Midwest Computational Linguistics Colloquium*. Indiana University, Bloomington, IN, USA, June 25 – 26, 2004.
- Raskin, Victor, Christian F. Hempelmann and Katrina E. Triezenberg. "Semantic Forensics." Paper at the *Midwest Computational Linguistics Colloquium*. Indiana University, Bloomington, IN, USA, June 25 – 26, 2004.
- Televnaja, Julija, Christian F. Hempelmann, Krista Bennett, and Katrina E. Triezenberg. "Semantic Representation of English Phrasal Verbs." Paper at the *Intelligent Information Systems 2004 Conference*. Zakopane, Poland. May 17-20, 2004.
- Hempelmann, Christian F. "YPS-The Ynperfect Pun Selector for Computational Humor." Paper at the *2003 Conference of the International Society for Humor Studies*. Northeastern Illinois University, Chicago, IL. July 8-10, 2003.
- Raskin, Victor, Sergei Nirenburg, Christian F. Hempelmann, Inna Nirenburg, and Katrina E. Triezenberg. "The Genesis of a Script for Bankruptcy in Ontological Semantics." Paper at the *Text Meaning Workshop of the HLT-NAACL 2003 Human Language Technology Conference*. Edmonton, Canada. May 31, 2003.
- Hempelmann, Christian F. "YPS-The Ynperfect Pun Selector for Computational Humor." Paper at the *Computer-Human-Interface Conference 2003 of the Association for Computing Machinery*. Ft. Lauderdale, FL. April 6, 2003.
- Hempelmann, Christian F. "Permissible Distance and Recoverability in Paronomasic Puns." Paper at the *2002 Conference of the International Society for Humor Studies* University of Bologna, Bertinoro, Italy. July 5, 2002.
- Hempelmann, Christian F. "'99 nuns giggle, 1 nun gasps:' The not-all-that-Christian Natural Class of Christian Jokes." Paper at the *2001 Conference of the International Society for Humor Studies*. College Park, MD. July 7, 2001.



- Raskin, Victor, Mikhail Atallah, Christian F. Hempelmann, and Dina Mohamed. "Developing an Automatic Hybrid Data and Text System for Downgrading Sensitive Documents." Poster at the *Second Annual Research Symposium of the Center for Education and Research in Information Assurance and Security (CERIAS)*. Purdue University, West Lafayette, IN. April 26, 2001.
- Raskin, Victor, Mikhail Atallah, Florian Kerschbaum, Christian F. Hempelmann, Sanket Naik, Michael Crogan, and Dina Mohamed. "Watermarking of Natural Language Text." Poster at the *Second Annual Research Symposium of the Center for Education and Research in Information Assurance and Security (CERIAS)*. Purdue University, West Lafayette, IN. April 26, 2001.
- Hempelmann, Christian F. "The Joking Monk: Humor and Narrative Structure in Rabelais' Gargantua." Paper at the *1999 Conference of the International Society for Humor Studies*. Holy Names University, Oakland, CA. July 2, 1999.
- Invited Presentations
  - Hempelmann, Christian F. "Can Artificial Humor be Bigoted?" Invited virtual presentation at "Do Androids Share Memes About Electric Sheep?" November 19, 2021, University of Bologna, Italy.
  - Petrenko, Max and Christian F. Hempelmann. "Humor and Artificial General Intelligence." Invited virtual contribution at the Dagstuhl Seminar 21362 *Structure and Learning*. September 6, 2021. Schloss Dagstuhl, Germany.
  - Hempelmann, Christian F. and Max Petrenko. "The Artificial Ethics of AI Humor." Invited virtual contribution at the Dagstuhl Seminar 21362 *Structure and Learning*. September 8, 2021. Schloss Dagstuhl, Germany.
  - Hempelmann, Christian F. "Artificial Intelligence Humor: Fundamentals and Early History." Lecture at the webinar "Humor and Artificial Intelligence" in the *2021 Online Webinar series of the International Society for Humor Studies*. May 21, 2021.
  - Hempelmann, Christian F. "Some Linguistics of Humor." Introductory graduate online lecture. Bangor University, UK, May 12, 2021.
  - Hempelmann, Christian F. "tbd." and "tbd." Lectures at the 2020 International Summer School for Research in Humor and Laughter, Martin Luther University Halle-Wittenberg, Germany, July 2020. [cancelled]
  - Hempelmann, Christian F. "Humor and Artificial Intelligence." and "Some Linguistics of Humor." Invited lectures at the *2019 International Summer School for Research in Humor and Laughter*, Bonn, Germany, July 2019.
  - Hempelmann, Christian F. "Verkackte Komik: Wer findet das witzig? [Shitty humor: Who thinks it's funny?]." Invited paper at the *2018 Kasseler Komik Colloquium "Komik und Kulinarik"*. Kassel, Germany, March 1-3, 2018.
  - Hempelmann, Christian F. "Laughter, no Humor: The 1962 Laughter Epidemic." "Puns are Phonosemantics: Computers can do Half of it." and "The Terminology of Humor and Laughter Across Languages." Invited lectures at the *2017 International Summer School for Research in Humor and Laughter*, Purdue University, West Lafayette, IN, July 2017.
  - Hempelmann, Christian F. "[Cartoon Komik](#)." Invited plenary presentation at the workshop *Medienästhetik der Komik* [aesthetics of humor in the media] at the Center for Interdisciplinary Studies of the University of Bielefeld, Germany. July 6-8, 2017.
  - Hempelmann, Christian F. "[Can the Meaning of Funny be a Number?](#)" Invited presentation at the Ubiquitous Knowledge Processing Lab at Technische Universität Darmstadt, Germany. July 3, 2017.
  - Reid, Robin and Christian F. Hempelmann. "The Tolkien Corpus Project." Invited plenary presentation at *THATCamp 2016*, Oklahoma State University, Stillwater, OK. May 20-21, 2016.
  - Hempelmann, Christian F. "Humor in the Classroom." Invited Talk. Professional Development Day, Texas A&M University-Commerce, Universities Center Dallas, TX. April 15, 2016.
  - Hempelmann, Christian F., Abdullah N. Arslan, Salvatore Attardo, Grady P. Blount, and Nikolay M. Sirakov. "Real-life Identification of Partially Occluded Weapons in Videoframes." Invited Paper.

- SPIE Defense, Security, and Sensing 2016 Conference*. Baltimore, MD, April 2016.
- Hempelmann, Christian F. Invited participant at the *2nd Artificial Intelligence and Computational Humor Panel* at the 4th Humor Research Conference in Northeast Texas, Rockwall, TX. February 21-23, 2014.
  - Hempelmann, Christian F. "Computational approximations of human humor processing." and "Absurd and nonsensical humor: a proposal." Invited lectures at the *2013 International Summer School for Research in Humor and Laughter*, Otto-von-Guericke University, Magdeburg, Germany, July 2013.
  - Arslan, Abdullah N., Christian F. Hempelmann, Carlo Di Ferrante, Salvatore Attardo, and Nikolay Metodiev Sirakov. "From Shape to Threat: Exploiting the Convergence Between Visual and Conceptual Organization for Weapon Identification and Threat Assessment." Invited Paper. **Recipient of the Lockheed-Martin Best Paper Award.** *SPIE Defense, Security, and Sensing 2013 Conference*. Baltimore, MD, April 2013.
  - Hempelmann, Christian F. and Varadraj Gurupur. "Organizing Knowledge Ontologically: Introduction to the Ontological Semantic Technology Lab." Math and Computer Science Research Forum, College of Science, Engineering, & Agriculture, Texas A&M University-Commerce, TX. March 26, 2013.
  - Hempelmann, Christian F. "Konfessionelle Komik." [Denominational humor.] Invited paper at the *Kassel Humor Colloquium*. Kassel, Germany, March 1, 2013.
  - Hempelmann, Christian F. "A Semantic Baseline for Spam Filtering." *CERIAS Security Seminar*, Purdue University, West Lafayette, IN, January 2013.
  - Hempelmann, Christian F. "Artificial Intelligence and Humor: Research Directions in Humor and Computers." *Invited Plenary Contribution at the 2012 AAAI Fall Symposium Series*. Arlington, VA, November 2012.
  - Raskin, Victor, Christian F. Hempelmann, and Julia M. Taylor. "On the Road to the Ontological Semantic Theory of Humor." Pre-conference Tutorial at the *2012 Conference of the International Society for Humor Studies*. Jagiellonian University, Krakow, Poland, July 2012.
  - Hempelmann, Christian F. "False Logic, Formally?" *Computational Humor 2012. 3rd International Workshop on Computational Humor*. Amsterdam, NL, June 8, 2012.
  - Raskin, Victor, Christian F. Hempelmann, and Julia M. Taylor. "The Ontological Semantic Alternative: A Meaning-based Path to Natural Language Understanding." Plenary at the *Society for Design and Process Science Conference*. Jeju Island, Korea, June 2011.
  - Hempelmann, Christian F. "Explicitness is Proverbially and at This Point in This Title Also Obviously the Death of Wit, or is It?" Invited contribution at the Symposium on the Length of Jokes at the *2011 Conference of the International Society for Humor Studies*. Boston University, Boston, MA, July 2011.
  - Hempelmann, Christian F., Victor Raskin and Julia M. Taylor. "The Ontological Semantics of Humor." Keynote lecture at the *2011 Northeast Texas Humor Research Conference*. Southern Methodist University, Dallas, Texas. January 28, 2011.
  - Hempelmann, Christian F., Victor Raskin and Julia M. Taylor. "Ontological Semantic Technology in Action." Invited talk at Texas A&M University-Commerce, Texas, January 28, 2011.
  - Hempelmann, Christian F. "Semantic Search Beyond RDF?" Invited Panel Statement at the *2009 Semantic Technology Conference*. San Jose, California, June 16, 2009.
  - Hempelmann, Christian F. "Why with Ontologies?" Invited presentation at the Justus-Liebig-Universität, Project "Practices of Searching and Finding?" of the Initiative "Cultural Techniques and their Adaptation to the Media." Giessen, Germany, May 25, 2009.
  - Hempelmann, Christian F. "Direct-Meaning-Access Ontological Semantics for Information Gathering and Threat Mitigation." Invited Talk at the Departments of Literature & Languages and Computer Science, Texas A&M, Commerce, Texas, May 1, 2009.

- Hempelmann, Christian F. and Andreas Waschbüsch. "Wenn Kirche komisch sein will. [When the church tries to be funny]." Invited paper at the *Kassel Humor Colloquium*. Kassel, Germany, February 20, 2009.
- Hempelmann, Christian F. "Meaning for Humor Researchers," "Is Incongruity that is Resolved Humor?" "GTVH Workshop." Invited lectures at the *8th International Summer School and Symposium on Humour and Laughter: Theory, Research, and Application*. University of Galati, Romania. June 23-28, 2008.
- Hempelmann, Christian F. "Will Semantics Give Web Search a Facelift?" Invited Panel Statement at the *2008 Semantic Technology Conference*. San Jose, California. May 18-22, 2008.
- Hempelmann, Christian F. "Semantic Search." Invited paper at the *New York Semantic Web Meetup Group*. New York, New York. April 17, 2008.
- Hempelmann, Christian F. "Semantic Search: Content vs. Formalism." Invited round table statement at *LangTech2008, Language and Speech Technology Conference*. Rome, Italy. February 28-29, 2008.
- Hempelmann, Christian F. and Victor Raskin. "The Ontological Semantic Perspective on the Semantic Web." Invited paper at the *New York Semantic Web Meetup Group*. New York, New York. August 24, 2007.
- Hempelmann, Christian F. "Is Incongruity That is Resolved Humor?" "Wordplay: Humorous and Non-humorous," "The 3-Hour GTVH Workshop," and "Cartoons: Not just Jokes with a Picture" (with Andrea Samson). Lectures at the *7th International Summer School and Symposium on Humour and Laughter: Theory, Research, and Application*. University of Aberdeen, United Kingdom. July 9-14, 2007.
- Hempelmann, Christian F. "Beyond Proof-of-Concept: Implementing Ontological Semantics as a Commercial Product." Invited talk at the *4th Midwest Computational Linguistics Colloquium 2007*. Purdue University, West Lafayette, Indiana, April 28, 2007.
- Hempelmann, Christian F. "The Linguistics of Humor." Lecture for the Course "Humor and Laughter" by Willibald Ruch and Ursula Beermann, University of Zurich, Switzerland. December 2006.
- Hempelmann, Christian F. and Salvatore Attardo "Is Incongruity Resolved Humor?" "Wordplay: Humorous and Non-humorous," "A GTVH Seminar." Lectures at the *6th International Summer School and Symposium on Humour and Laughter: Theory, Research, and Application*. Universität Fribourg, Switzerland. July 10-14, 2006.
- Hempelmann, Christian F. and Andrea Samson. "Cartoons: Not just Jokes with a Picture." Lecture at the *6th International Summer School and Symposium on Humour and Laughter: Theory, Research, and Application*. Universität Fribourg, Switzerland. July 10-14, 2006.
- Hempelmann, Christian F. "The Ontology of Humor Consumers: What do College Students and Computers Find Funny?" Invited talk at the *2006 Humor Symposium*. Youngstown State University, Youngstown, Ohio. April 2006.
- Hempelmann, Christian F. "Dichter Humor durch dichte Kultur?" [Dense Humor through Dense Culture?]. Invited paper at the *Kassel Humor Colloquium*. Kassel, Germany, February 2006.
- Hempelmann, Christian F. "The Linguistics of Humor." Interactive lecture taught via the Internet (webcam/chat/forum) for the Course "Humor and Laughter" by Willibald Ruch and Ursula Beermann at the University of Zurich. December 2005.
- Hempelmann, Christian F. "Introduction to the Semantic Script Theory of Humor and the General Theory of Verbal Humor," and "Cartoons: Aesthetics and Cognition" (with Andrea Samson). Lectures at the *5th International Summer School and Symposium on Humour and Laughter: Theory, Research, and Application*. Universität Tübingen, Germany. July 25-30, 2005.
- Hempelmann, Christian F. and Willibald Ruch. "3 WD Meets GTVH: Breaking the Ground for Interdisciplinary Humor Research." Keynote address at the *2005 Conference of the International Society for Humor Studies*. Youngstown State University, Youngstown, OH. June 13-18, 2005.

- Hempelmann, Christian F. and Salvatore Attardo. "Analyzing Texts Using the GTVH." Workshop at the *2005 Conference of the International Society for Humor Studies*. Youngstown State University, Youngstown, OH. June 13-18, 2005.
- Hempelmann, Christian F. "Linguistic Overview of Punning," "Introduction to the General Theory of Verbal Humor," "Psychology and Linguistics on Joke Dimensions and Resources," and "The Laughter Epidemic: How Much Laughter, How Much Epidemic?" Lectures at the *4th International Summer School and Symposium on Humour and Laughter: Theory, Research, and Application*. University of Wolverhampton, UK. Sept. 6-11, 2004.
- Hempelmann, Christian F. "Puns: A Linguistic Review," and "An Introduction to the General Theory of Verbal Humor." Lectures at the *3rd International Summer School and Symposium on Humour and Laughter: Theory, Research, and Application*. University of Edinburgh, UK. Sept. 16, 2003.
- Hempelmann, Christian F. "The Epic 1962 Tanganyika Laughter Epidemic." Keynote address at the *2003 Conference of the International Society for Humor Studies*. Northeastern Illinois University, Chicago, IL. July 8-10, 2003.
- Hempelmann, Christian F. "YPS: The Ymperfect Pun Selector for Computational Humor." Invited talk at Twente University, Enschede, The Netherlands. May 15, 2003.
- Hempelmann, Christian F. "YPS: The Ymperfect Pun Selector for Computational Humor." Invited talk at the ITC-irst Center, Trento, Italy. May 6, 2003.
- Hempelmann, Christian F. and Victor Raskin. "Natural Language Information Assurance and Security." Plenary address at the *Center for Education and Research in Information Assurance and Security (CERIAS) Security Seminar*. Purdue University, West Lafayette, IN. April 8, 2003.
- Hempelmann, Christian F. "Current Issues in Linguistic Humor Research." LinguA guest lecture at the Universität Hannover, Germany. June 18, 2002.
- Hempelmann, Christian F. "Current Issues in Linguistic Humor Research." Invited talk at the Max Planck Institute for Psycholinguistics, Nijmegen, The Netherlands. June 6, 2002.
- Hempelmann, Christian F., Victor Raskin, and Katrina E. Triezenberg. "Ontology for IAS: Extending Research and Application Paradigms In Information Security." Plenary address at the *Center for Education and Research in Information Assurance and Security (CERIAS) Security Seminar*. Purdue University, West Lafayette, IN. February 6, 2002.

## Membership in Professional Societies

- International Society for Humor Studies (ISHS)
- Erdős number: 3 (Erdős — Wagstaff — Atallah — Hempelmann)

## Awards, Grants, Appointments, Certificates

- 2019  
International Society for Humor Studies Service Award, for the planning and hosting of the 31st ISHS Conference, Austin, Texas
- 2018  
International Faculty Development Grant (\$950), Texas A&M University-Commerce
- 2016  
Junior Faculty Research Award, Texas A&M University-Commerce
- 2013  
Facial Action Coding System (FACS) certified coder
- 2009  
Emerging Voice Award of Purdue's College of Liberal Arts

- 2008  
Graduate Faculty of Georgia Southern University
- 2007  
Graduate Faculty of Purdue University (adjunct appointment)
- 2005  
Swiss National Foundation Grant PI011-111577/1 for the project "The Ontology of Humor: Psychological and Linguistic Foundations" (10,000 SFr [ca. \$10,000], awarded)
- 2004  
European Union Marie Curie Grant FP6-2002-Mobility-12 Proposal 516528 for "Integration and Development of Interdisciplinary Humor Research", principal investigator (€80,000 [ca. \$120,000], awarded but declined)
- 2003  
Emerging Scholar Award of the International Society for Humor Studies
- 2001  
Quadrille Ball Scholarship of the Germanistic Society of America for research in natural language processing and information security (IIE grant no. F103000-15013790)

## Press

- New York Times, Washington Post, Dallas Morning News, Houston Chronicle, etc., 4/1/2019 (April Fool's Day) expert interview: "[No AI in Humor: R2-D2 Walks Into a Bar, Doesn't Get the Joke](#)", humor and artificial intelligence
- pflegen-online.de (news site), 1/15/19, interview: "[Online-Petition gegen Pflegekammer: Wirkung beschränkt](#)", online petitions
- Moonwalk (podcast), 7/28/17, chief expert: "[The Revisionist Strikes back](#)", laughter epidemic
- RUFSM (science blog), 5/19/17, chief expert: "[What are you laughing at?](#)", laughter epidemic
- Pride Online (campus online news), 8/23/16, "Junior Faculty Research Award Competition Recipients for 2016-1017 Announced"
- Atlas Obscura (online magazine), 1/16/16, chief expert: "[The 1962 Laughter Epidemic of Tanganyika was No Joke](#)"
- KETR.fm The President's Perspective (radio), 12/2/15, 2-minute segment on paper publication Hempelmann et al. (2015)
- Pride Online (campus online news), 11/13/15, "A&M-Commerce Faculty to Publish in Highest-Ranking Artificial Intelligence Journal"
- Nautilus (online magazine), 4/7/15, chief expert: "Why Does Mass Hysteria Affect Mostly Women?"
- Playboy Germany, May 2014 (magazine), 1 paragraph on "Die perfekte Anlache [the perfect pick-up joke]"
- HuffPo, TEDWeekends, 8/4/13, response article to Hurley et al. "[Inside Jokes: How Humor Has Not Evolved](#)"
- HuffPo Live (online show), 5/17/13, 1 of 4 experts on round table: "Tricking the Mind," laughter epidemic
- Tagesanzeiger 1/24/12 "Lachen wir uns vor Angst bald in die Hose [Will we have to laugh our pants]?", laughter epidemic
- Spiegel (German weekly news magazine) 09/21/11, chief expert: "[Lachen bis die Ärzte kamen](#)" [laughing until the doctors had to come]"
- Times of India (newspaper), 07/31/10, 1 paragraph: "Why laughter is contagious" quoting New Scientist
- New Scientist (UK magazine), 07/15/10, 2 paragraphs in: "Mysteries of Laughter"
- Neon (print magazine), 01/05/10, short mention in: "A-Z: Humor"
- Die Welt (newspaper), 02/23/09, KaKoKo, chief expert on: "Hat Jesus je gelacht? [Did Jesus ever laugh?]"
- BBC website 12/16/08, chief expert for news item: "Helping the web to understand"
- IFRA 08/01/08 flashlight report (web information service), "Opinions on Web 3.0" (English and German)

- deutschlandradio kultur 07/22/08, 15-minute interview on Otto Waalkes and German humor: "Was uns Komiker über den Zustand unserer Gesellschaft verraten [What comedians tell us about the state of our society]"
- altsearchengines, 07/03/08, authored blog entry: "The Semantics of Humor"
- ZDNet blog, 03/19/08, "hakia licenses OntoSem technology to third parties"
- WNYC NPR radiolab (radio and website), 02/13/08, chief expert for a 1-hour program: "Contagious Laughter"
- radio berlin brandenburg, "Die Profis", 09/15/07, 10-minute interview: "Dem Humor auf der Spur [Tracking humor]"
- India Economic Times (newspaper), 08/29/07, 7 paragraphs: "US researchers at the University of Cincinnati have equipped a computer with a sense of humour"
- discoverychannel.com (website), 08/28/07, 5 paragraphs: "Computers Programmed to Get the Joke"
- Columbus Dispatch (newspaper), 08/06/07, 2 quotes as expert: "Computers get jokes in tiny bytes"
- Die Zeit (newspaper), 07/02/07, "Wo ist der Witz? [Where's the joke?]", one feature paragraph in the context of the 2007 International Summer School on Humour and Laughter in Aberdeen, UK
- Statesboro Herald (newspaper), 10/17/05, "No joke: GSU professor to study humor"
- The George Anne (GSU student newspaper), 10/10/05, "Take my grant... please! GSU professor receives grant to study humor in Switzerland"
- Savannah Morning News (newspaper), 10/10/05, "Research to laugh at", SNF grant for humor research
- Channel 97 GSU (campus tv), 10/17/05, SNF grant for humor research
- WTKS Savannah (radio), 10/13/05, short interview on Swiss National Foundation grant for humor research
- Chicago PBS (tv), 07/08/03, short interview on humor in context of 2003 International Society for Humor Studies conference
- Chicago Tribune (newspaper), 06/29/03, interview: "Examining 1962's 'Laughter Epidemic' "

## Languages

- German (native), English (native equivalent), Old and Middle English, Italian, Latin, Ancient Greek, Dutch, Danish, Hebrew, Old Irish (in descending order of proficiency)